

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C02F1/00 C02F1/44 B01D61/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C02F B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 161 981 A (TORAY INDUSTRIES) 12 December 2001 (2001-12-12) paragraphs '0021! - '0023!, '0027!, '0028!, '0034!, '0040!, '0041!, '0044!; claims 15,16,19,20,30,31; figures 1,2	1-5,7-11
Y	EP 0 055 981 A (MESPLE JOSE L R) 14 July 1982 (1982-07-14) page 7, lines 3-8 page 10, lines 6-13 page 13, line 24 - page 14, line 19 page 15, line 28 - page 16, line 31 page 18, lines 9-24; claims 1,2	1,2,6
Y	WO 00/75510 A (UNIV TEXAS) 14 December 2000 (2000-12-14) page 3, lines 8-29; claim 1; figure 3	8-11
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

18 October 2004

Date of mailing of the international search report

27/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3018

Authorized officer

Kurtulan, M

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/16493 A (DCT DOUBLE CONE TECHNOLOGY AG ; STARK JOHN HERMAN (CH); WAGENBACH HANS) 8 March 2001 (2001-03-08) cited in the application page 6, lines 18-25 page 7, line 19 - page 8, line 2 page 9, lines 1-21; claims 7-13; figures 4-8	1-11
Y	----- EP 1 243 748 A (DCT DOUBLE CONE TECHNOLOGY AG) 25 September 2002 (2002-09-25) paragraphs '0001!', '0003!', '0012!', '0014!', '0017!; figures 1,5 -----	1-11

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1161981	A	12-12-2001	JP 8108048 A EP 1161981 A2 AT 218917 T AU 691649 B2 AU 3315295 A CA 2160330 A1 CN 1132108 A ,B DE 69527021 D1 DE 69527021 T2 EP 0709130 A1 ES 2178660 T3 KR 204608 B1 PT 709130 T US 6187200 B1	30-04-1996 12-12-2001 15-06-2002 21-05-1998 26-04-1996 13-04-1996 02-10-1996 18-07-2002 14-11-2002 01-05-1996 01-01-2003 15-06-1999 31-10-2002 13-02-2001
EP 0055981	A	14-07-1982	ES 8203308 A1 ES 501374 A2 BR 8108083 A EP 0055981 A1 GR 75052 A1 JP 57130586 A MA 19291 A1 NO 820005 A MT 904 A	01-07-1982 01-09-1982 14-09-1982 14-07-1982 13-07-1984 13-08-1982 01-04-1982 06-07-1982 27-07-1983
WO 0075510	A	14-12-2000	AU 5328300 A BR 0011410 A EP 1228311 A2 NO 20015968 A WO 0075510 A2 US 2003019633 A1 US 6497287 B1	28-12-2000 04-06-2002 07-08-2002 07-02-2002 14-12-2000 30-01-2003 24-12-2002
WO 0116493	A	08-03-2001	WO 0116493 A1 AT 257219 T AU 5368299 A CA 2391835 A1 DE 69913992 D1 DK 1208304 T3 EP 1208304 A1 US 6701960 B1	08-03-2001 15-01-2004 26-03-2001 08-03-2001 05-02-2004 13-04-2004 29-05-2002 09-03-2004
EP 1243748	A	25-09-2002	EP 1243748 A1 BR 0208073 A CA 2440894 A1 WO 02075109 A1 NO 20034088 A US 2004104023 A1	25-09-2002 02-03-2004 26-09-2002 26-09-2002 14-11-2003 03-06-2004